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|   | AA5         |  |  |                |                                  |               |                 |  |                                       |
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|   | AL5         | ╁  |  |                |                                  |               |                 |  | No<br>Yes                             |
|   | AN5         | _  |  |                |                                  |               | ····            | <u> </u>   | . No                                  |
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|   | A05         |  |  |                |                                  |               |                 |  | Yes<br>No                             |
|   | AP5         |  |  |                |                                  |               |                 |  | Yes<br>No                             |
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|  | AL9        | ļ  |                                       |                   |  |             |         |  | Yes<br>No                             |
|  | AM9        | _  |                                       |                   |  |             |         |  | Yes<br>No                             |
|  | AN9        |  |                                       |                   |  |             |         |  | Yes<br>No                             |
|  | A09        |  |                                       |                   |  |             |         |  | Yes<br>No                             |
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EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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## THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

| ATTY. DOCKET NO.<br>1778.0100002 | APPLICATION NO. 09/662,832 |  |
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| APPLICANTS van Hook et al.       |                            |  |
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| NUMBER   |               |            |          |                |                    | U.S. F                       | PATEN                | T DOCUMENTS                                  |                            | _                            |                  |  |
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| AD2   5,848,269   12/1998  | 2             | AC2        | 5,81     | 5,695          | 09/19              | 98                           | Jame                 | s et al.                                     | S                          | FP 1 1 2                     | 003              | 1  |
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| AG2    5,880,984   | a             | AF2        | 5,86     | 7,682          | 02/19              | 999                          | Witt e               | et al.                                       |                            |                              |                  | <del>                                     </del> |
| AH2   5,953,241   09/1999   Hansen et al.   05/16/1997     Al2   6,065,115   05/2000   Sharangpani et al.   04/10/1998     FOREIGN PATENT DOCUMENTS     EXAMINER INITIAL   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATIC     AJ   AK   Y     AK   Y     AL   OTHER (Including Author, Title, Date, Perlinent Pages, etc.)     OTHER (Including Author, Title, Date, Perlinent Pages, etc.)     AN   AO   AO     AP   AO     AP   AO     AP   AD     AP   AD     AP   AD     AN   AD     AP     AN   AD     AP     AN   AD     AP     AN   AD     AN      | $\sim$        | AG2        | 5,88     | 0,984          | 03/19              | 999                          | Burch                | rfiel et al.                                 |                            |                              |                  | 1  |
| FOREIGN PATENT DOCUMENTS  EXAMINER INITIAL  DOCUMENT NUMBER  AJ  AK  AL  OTHER (Including Author, Title, Date, Perlinent Pages, etc.)  AN  AN  AO  AP  OA/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  O4/10/1998  OA/10/1998  | N             | AH2        | 5,95     | 3,241          | 09/19              | 999                          | Hans                 | en et al.                                    |                            |                              |                  |  |
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| AM 2 VIST Instruction Set User's Manual, Sun Microsystems, Inc., 1997, pages i-xii and 1-136, instruction Set User's Manual, Sun Microsystems, Inc., 1997, pages i-xii and 1-136, instruction Set Users Manual, pdf.  AN AO AP   |               | AK         |          |                |                    |                              |                      |  |                            |                              |                  | Yes<br>No  |
| AM 2 V/S™ Instruction Set User's Manual, Sun Microsystems, Inc., 1997, pages i-xii and 1-136, with the page, nondot.org/sabre/os/files/processors/VISInstructionSetUsersManual.pdf.  AN AO  AP   |               | AL         |          |                |                    |                              |                      |  |                            |                              |                  | Yes<br>No  |
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APPLICATION NO. 09/662,832

1778.0100002
FIRST NAMED INVENTOR
Timothy J. Van Hook
FILING DATE
September 15, 2000

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| n                | AC1          | 5,4                                    | 99,299                   | 03/1996            | Takenaka et al.  |                   |                 |                    |
| N                | AD1          | 5,7                                    | 48,979                   | 05/1998            | Trimberger   |                   |                 | 06/07/1995         |
| 1                | AE1          | 6,0                                    | 35,317                   | 03/2000            | Guy  |                   |                 | 01/08/1998         |
| 1                | AF1          | 6,0                                    | 67,615                   | 05/2000            | Upton  |                   |                 | 11/09/1995         |
| 2                | AG1          | 6,0                                    | 78,941                   | 06/2000            | Jiang et al.   |                   |                 | 12/10/1998         |
| n                | AH1          | 6,1                                    | 28,726                   | 10/2000            | LeComec  |                   |                 | 06/04/1996         |
| h                | Al1          | 6,1                                    | 41,421                   | 10/2000            | Takaragi et al.  |                   |                 | 12/08/1997         |
| 6                | AJ1          | 6,1                                    | 54,834                   | 11/2000            | Neal et al.  |                   |                 | 05/27/1997         |
| 6/               | AK1          | 6,2                                    | 33,597 B1                | 05/2001            | Tanoue et al.  |                   |                 | 07/07/1998         |
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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

APPLICATION NO. 09/662,832

Page 2 of 2

ATTY. DOCKET NO.
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FIRST NAMED INVENTOR
Timothy J. Van Hook
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| V                                     | AA2                          | 6,349,318 B1                                  | 02/2002   | Vanstone et al.            |                     |                 | 10/14/1999                            |
|                                       | AB2                          |   |   |                            |                     |                 |                                       |
|                                       | AC2                          |   |   |                            |                     |                 |                                       |
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|                                       | AL2                          |   |   |                            | :                   |                 | Yes<br>No                             |
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| -n   | AA3        | 5,58        | 1,773                               | 12/19             | 996                           | Glove     | er_                     | 395                   | 800            |                 |
| E JCINW  | AB3        | 5,590       | D,345                               | 12/19             | 996                           | Barke     | er et al.               | 395                   | 800            |                 |
| 66.0   | AC3        | 5,666       | 5,298                               | 09/19             | 97                            | Peleg     | et al.                  | 364                   | 715.08         |                 |
| 文明是  | AD3        | 5.669       | 9,010                               | 09/19             | 997                           | Duluk     | ., Jr.                  | 395                   | 800.22         |                 |
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|  | <u>l</u> . | <u>.</u>    |                                     |                   |                               |           | tle, Date, Pertinent Pa |                       |                |                 |
| ls/  | AO         | <u>3</u>    | QML-DSP/MInc., 7 pages              |                   |                               | er, at N  | ti.com/sc/doc           | s/military/liter/ecou | ·/dsp.htp, Tex | as Instruments, |
| 10   | AP         | 3           | Turley, J. and                      |                   |                               |           | ew 'C6x DSP Screams     | at 1,600 MIPS," M     | icroprocesso   | r Report        |
|  |            | 2           | MicroDesign                         |                   |                               | •         |                         |                       |                |                 |
| û  | AQ:        | 3           | MicroDesign                         | 4-Bit C           | Digital Signal                | Proce     | ssor Semiconductor Tec  | chnical Data, Motor   | ola, Inc., 110 |                 |
| a<br>C   | AQ<br>AR   |             | MicroDesign  DSP56002 2 (Bates Numb | 4-Bit C<br>ers L0 | Digital Signal<br>17803-L0791 | Proce 2). | ssor Semiconductor Ted  |                       |                | pages (1996).   |

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| EXAMINER INITIAL               |          |  | CUMENT<br>MBER                  | DAT                 | E                                | NAM             | E   | CLASS                       | SUB-<br>CLASS  | FILING DATE                                      |
| 1 / E 40.                      | AA4      | 5,76   | 1,523                           | 06/19               | 998                              | Wilki           | nson et al.                                 | 395                         | 800.2          |  |
| 1/3                            | ∖AB4     | 5,77   | 8,241                           | 07/19               | 998                              | Bind            | oss et al.                                  | 395                         | 800.2          |  |
| My 2 2002                      | AC4      | † T  | 4,602                           | 07/19               | 998                              | Glas            | s et al.                                    | 395                         | 561            |  |
| MAIN                           | AD4      | 1  | 3,661                           | 08/19               | 998                              | Dulo            | ng et al.                                   | 364                         | 750.5          |  |
| 3. W.S.                        | AE4      | 1  | 2,147                           | 09/19               |                                  |                 | Hook <i>et al</i> .                         | 345                         | 511            |  |
| THE TRUCKS                     | AF4      |  | 2,723                           | 09/19               |                                  |                 | u et al.                                    | 385                         | 128            | <del>                                     </del> |
| a                              | AG4      | <del>                                     </del> | 5,723                           | 09/19               |                                  |                 | nson et al.                                 | 395                         | 800.2          |  |
| n                              | AH4      | †  | 2,606                           | 10/19               |                                  | Morte           | ·   | 395                         | 800.16         |  |
| W                              | Al4      | <del>1</del>                                     | 8,984                           | 11/19               |                                  |                 | en <i>et al</i> .                           | 395                         | 800.05         | -  |
|                                | 1744     | 0,00   | 0,004                           | 11//                |                                  |                 | ENT DOCUMENTS                               | 1 000                       | 000.05         |  |
| EXAMINER<br>INITIAL            |          | DOC  | CUMENT NUMI                     | BER                 | DATE                             |                 | COUNTRY                                     | CLASS                       | SUB-<br>CLASS  | TRANSLATION                                      |
|                                | AJ4      |  |                                 |                     |                                  |                 |   |                             |                | Yes<br>No  |
|                                | AK4      |  |                                 |                     |                                  |                 |   |                             |                | Yes  |
|                                | AL4      |  |                                 |                     |                                  |                 |   |                             |                | Yes<br>No  |
|                                | AM4      |  | ,                               |                     |                                  |                 | -   |                             |                | Yes<br>No  |
| 2                              | AN .     | <u>4</u>   | Lee, R., "Acci<br>(Bates Number | elerati<br>ers L0   | ng Multimedi<br>8566-L08576      | ia with<br>5).  | Enhanced Microproces                        | ssors," <i>IEEE Micr</i> o, | IEEE, pp. 22-  | ·32 (April 1995).                                |
| h                              | AO       | <u>4</u>   | DSP56000 24<br>L08722-L093      | 1-Bit D<br>59).     | igital Signal                    | Proce           | ssor Family Manual, Mc                      | otorola, Inc., 638 pa       | ges (1995).(   | Bates Numbers                                    |
| h                              | AP .     | <u>4</u>   | Microprocess                    | or Dev              | vices Reliabi                    | lity Mo         | nitor Report: Third Qua                     | rter 1997, Motorola         | , 8 pages (19  | 97).   |
| n                              | AQ       | <u>4</u>   | Reliability Mo                  | nitor E             | nvironmenta                      | ol Stres        | ss Data 3Q97, Motorola                      | , 4 pages (1997).           |                |  |
| n                              | AR :     | <u>4</u>   | Reliability and                 | l Qual              | ity Report 30                    | 297, M          | otorola, 2 pages (1997)                     | ).                          |                |  |
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All Lefelluces considered.

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| DEN                        | AA5   | 5,864,703                      | 01/1                | 999                               | van l            | Hook <i>et al.</i>                         | 395           | 5        | 800.22         |                   |
| 01/E-3                     | AB5   | 5,881,307                      | 03/1                | 999                               | Park             | et al.                                     | 395           | 5        | 800.23         |                   |
| WE                         | AC5   | 5,936,872                      | 08/1                | 999                               | Fisch            | ner et al.                                 | 364           | <u> </u> | 754.03         |                   |
| MAY VA 2012 &              | AD5   | 5,960,012                      | 09/1                | 999                               | Spra             | cklen                                      | 371           |          | 53             |                   |
| ש או                       | AE5   | 5,996,056                      | 11/19               | 999                               | Volk             | onsky                                      | 712           | 2        | 1              |                   |
| Townset S                  | AF5   | 6,006,316                      | 12/1                | 999                               | Dinkj            | ian  | 712           |          | 22             |                   |
| <u> </u>                   | AG5   | 6,058,465                      | 05/20               |                                   | Nguy             | ren  | 712           |          | 7              | <u> </u>          |
| $\underline{\hspace{1cm}}$ | AH5   | 6,088,783                      | 07/2                | 000                               | Mort             | on   | 712           | 2        | 22             |                   |
|                            | AI5   | <u> </u>                       |                     |                                   |                  |  |               |          | J              |                   |
|                            | T     | T                              |                     | FOREIGN                           | PAT              | ENT DOCUMENTS                              |               |          | 1              | <del></del>       |
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|                            | AJ5   |                                |                     |                                   |                  |  |               |          |                | Ye<br>N           |
|                            | AK5   |                                |                     |                                   |                  |  |               |          |                | Ye:               |
|                            | AL5   |                                |                     |                                   |                  |  |               |          |                | Ye:               |
|                            | AM5   |                                |                     |                                   |                  |  |               |          |                | Ye<br>N           |
|                            |       | ОТН                            | ER (In              | cluding Auti                      | hor, T           | itle, Date, Pertinent Pa                   | ges, etc.)    |          |                |                   |
| M                          | AN    | <u>5</u> Microproces           | sor De              | vices Reliabi                     | ility Mo         | onitor Report: Fourth Qu                   | arter 1997, N | /lotorol | a, 10 pages (  | 1997).            |
| N                          | AO    | 5 Reliability al               | nd Quai             | lity Report 40                    | Q97, M           | lotorola, 2 pages (1997)                   | ).            |          |                |                   |
| N                          | АР    | 5 "Hardware I<br>Motorola, 5   | mplicati<br>pages ( | ons of <i>xmen</i><br>September 1 | າ as a<br>1992). | st followed by a Id," Mot                  | torola Semico | onducto  | or Engineerin  | g Bulletin,       |
| 2                          | AQ    | 5 601 First Sil<br>2 Pages (Oc | icon, at            | http:/www.m<br>, 1992).           | not.cor          | n/SPS/PowerPC/library/                     | /press_releas | ses/601  | I_First_Silico | n.html, Motorola, |
| N                          | AR    | 5 DSP56002/I                   | OSP56L<br>s (1994   | .002 24-Bit D<br>). (Bates Nu     | Digital o        | Signal Processor Motore<br>L07913-L07915). | ola Semicono  | ductor I | Product Inform | nation, Motorola, |
| EXAMINER                   |       |                                | 7                   | M                                 |                  |  | DATE          | CONS     | IDERED//       |                   |

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| PEVO                | AA6                                   |   |                                | 1                 |                                 |                                   |                                    |  |                     |               |                 |
| 3/                  | AB6                                   |   |                                |                   |                                 |                                   |                                    |  |                     |               |                 |
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| AN S                | AD6                                   |   |                                |                   |                                 |                                   |                                    |  |                     |               |                 |
|                     | AE6                                   |   | _                              |                   |                                 |                                   |                                    |  |                     |               |                 |
| PA THOSE            | AF6                                   |   |                                |                   |                                 |                                   |                                    |  |                     |               |                 |
|                     | AG6                                   |   |                                | <u> </u>          |                                 |                                   |                                    |  |                     |               |                 |
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|                     | Al6                                   |   |                                | ]                 |                                 |                                   |                                    | ·  |                     |               |                 |
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|                     | AJ6                                   |   |                                |                   |                                 |                                   |                                    |  |                     |               | Y               |
|                     | AK6                                   |   |                                |                   |                                 |                                   | ········                           |  |                     |               | Y               |
|                     | AL6                                   | <del> </del>  |                                |                   |                                 |                                   |                                    |  |                     | <del> </del>  | Y               |
|                     | AM6                                   |   |                                |                   |                                 | <del></del>                       |                                    |  |                     |               | Y               |
|                     | .1                                    |   | OTH                            | 50 //-            |                                 | <u> </u>                          | te, Pertinent                      |  |                     |               |                 |
| h                   | AN                                    | 6   | MC88410UM<br>sps.com/lit/ht    | I/AD: M<br>tml/mc | MC88410 Se<br>88410umad.        | condary Cach<br>html, Motorola    | e Controller U<br>a, Inc., 1 page  | <i>Iser's Manual</i> ,<br>e (January 24, | at http:/<br>1997). | /www.mot-     |                 |
| n                   | AO                                    | <u>6</u>  | AN1214: MC<br>sps.com/lit/ht   | 88110<br>tml/an   | 64-bit Exten<br>1214.html, M    | nal Bus Interfa<br>otorola, Inc., | ace to 16-bit E<br>1 page (Janua   | EPROM, at http<br>ary 24, 1997).         | o://www.            | mot-          |                 |
| N                   | АР                                    | <u>6</u>  | TMS320C80                      | Digital           | l Signal Proc                   | essor, Texas                      | Instruments C                      | Corp., p. 41 (Ju                         | ily 1994)           | ).            |                 |
| n                   | ÁQ                                    | <u>6</u>  | EB162: Progr<br>(January 24,   | rammir<br>1997).  | ng Tips (MC&                    | 18110), at http                   | ://www.mot-s                       | ps.com/lit/html                          | l/eb162.            | html, Motorol | a, Inc., 1 page |
| W                   | AR                                    | <u>6</u>  | MC88110/410<br>sps. com/lit/ht | ODH/A             | <i>D: MC88110</i><br>88110410dh | /MC88410 Dead.html, Moto          | esigner's Hanc<br>rola, Inc., 1 pa | dbook, at http:/<br>age (January 2       | //www.m<br>24, 1997 | not-<br>).    |                 |
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| D1,                 | AA7  |              |  |  |                                    |  |   |                     |                               |                  |  |
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|                     | AI7  | <u> </u>     |  | <del>                                     </del> | ·                                  | -  |   |                     | <del></del>                   | <del></del>      | <del>                                     </del> |
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|                     | AJ7  |              |  |  |                                    |  |   | <del></del>         |                               | 05.00            | Yes  |
|                     | AK7  |              |  |  |                                    |  |   |                     |                               |                  | Yes  |
|                     | AL7  |              |  |  |                                    |  |   | ,                   |                               |                  | Yes<br>No  |
|                     | AM7  |              |  |  |                                    |  |   |                     |                               |                  | Yes<br>No  |
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| a                   | AN   | 7            | MC88110UM<br>sps.com/lit/h             | IAD: M<br>tml/mc                                 | <i>C88110 Sec</i><br>88110umad.    | cond G<br>html, I                                | eneration RISC Microp<br>Motorola, Inc., 1 page ( | orocess<br>(Januar  | or User's Mar<br>y 24, 1997). | nual, at http:// | www.mot-   |
| W                   | AO   | Z            | Weiss, R., A.<br>page, (Nover          | RM Pio   | ccolo Mixes i<br>996).             | ARM F  | RISC with DSP, at http:                           | //ww.es             | std.com/Editor                | ial/1996/11/B    | riefs/arm.html, 1                                |
| h                   | ΑÞ   | 7            | <i>TMS320C1x</i> , 1995). (Bate        | ∕C2x/C<br>s Num                                  | 2xx/C5x Ass<br>bers L07916         | sembly<br>5-L083                                 | Language Tools User<br>98).                       | 's Guid             | e, Texas Instr                | uments, 483 į    | pages (March                                     |
| n                   | AQ   | 7            | TMS320C5x<br>(Bates Numb               | Gener<br>ers L0                                  | a <i>l-Purpose A</i><br>8399-L0856 | A <i>pplica</i><br>5).                           | tions User's Guide, Te                            | xas ins             | struments, 167                | pages (July      | 1997).   |
| n                   | AR   | <u>z</u>     | El-Sharkawy,<br>Prentice Hall          | Moha<br>PTR, j                                   | med, Ph.D.,<br>op. 43-124 (        | <i>Digita</i><br>1996).                          | Signal Processing Ap<br>(Bates Numbers L065       | plicatio<br>519-L06 | ns with Moton<br>6601).       | ola's DSP560     | 102 Processor,                                   |
| EXAMINER            |  |              | Ly                                     | 1/   | IN                                 |  |   |                     | DATE CONS                     | DEFE S           | 2  |
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| n                   | AN   | <u>8</u> K                                       |   | ·  |  |  | itle, Date, Pertinent Par<br>al Media," <i>Microprocesso</i>   |   | (October 22-2                                | 3, 1996).  |
| M                   |  | <u> </u>   | illian, E., "N  | MPS E  | xtensions fo   | r Digita   |  | or Forum, pp. 1- 5  |  |  |
| n<br>n              | ÃO   | 8 "1   | illian, E., "N<br>nterrupt Lat<br>992).               | MIPS E   | xtensions fo   | r Digita   | al Media," <i>Microprocesso</i>  | or Forum, pp. 1- 5<br>Engineering Bullet                                  | <i>in</i> , Motorola, p                      | p. 1, 2 and 4-9                                      |
| n<br>n              | AO   | 8 "f   | nterrupt Lat<br>992).<br>Running the                  | MC88   | a the MC881  | r Digita 10," M                                  | al Media," <i>Microprocesso</i><br>fotorola Semiconductor I  | er Forum, pp. 1- 5 Engineering Bullet Engineering Bullet                  | in, Motorola, p                              | p. 1, 2 and 4-9 2 pages (1992). Capability and       |
| n<br>n<br>n         | AO AP AQ   | 8 "F   | nterrupt Lat<br>992).<br>Running the<br>urley, J., "S | MC88   | a the MC881  110 in Locks S TriCore Rections," <i>Micr</i> | step,"   | al Media," <i>Microprocesso</i> fotorola Semiconductor I  Motorola Semiconductor  CISC Techniques: New | Engineering Bullet Engineering Bullet S2-Bit Design Empire Resources, pp. | in, Motorola, potin, Motorola, pohasizes DSP | 2 pages (1992).<br>Capability and<br>aber 17, 1997). |